



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

Roatan Mahogany USA, Inc.
4004 C Aurora Street
Coral Gables, FL 33146

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "Roatan Mahogany" Outswing Wood Casement Window - L.M.I.

APPROVAL DOCUMENT: Drawing No. 15-254, titled "Mahogany Casement Windows", sheets 1 through 7 of 7, dated 08/26/15, prepared by EngCo, Inc., signed and sealed by Pedro M. De Figueiredo, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

Limitations:

1. Installation into CMU not permitted at head and sill.
2. Concrete shall be minimum 3000 psi.
3. Hollow block shall conform to ASTM C-90, with a minimum compressive strength of 2,000 psi.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.



NOA No. 15-0921.09
Expiration Date: August 08, 2019
Approval Date: May 5, 2016
Page 1



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INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises **NOA# 14-0722.09** and consists of page 1, this page 2, and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jorge M. Plasencia, P.E.**



NOA No. 15-0921.09
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **15-254**, titled "Mahogany Casement Windows", sheets 1 through 7 of 7, dated 08/26/15, prepared by EngCo, Inc., signed and sealed by Pedro M. De Figueiredo, P.E.

B. TESTS

1. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an outswing wood casement window, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-01-1006**, dated 10/26/01, signed and sealed by Hector M. Medina, P.E.
(Submitted under NOA# 02-0510.03)
2. Test reports on: 1) Air Infiltration Test, per FBC TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC TAS 202-94
along with marked-up drawings and installation diagram of an outswing wood casement window, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-01-1184**, dated 10/29/01, signed and sealed by Hector M. Medina, P.E.
(Submitted under NOA# 02-0510.03)
3. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an outswing wood casement window, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-01-1095**, dated 11/02/01, signed and sealed by Hector M. Medina, P.E.
(Submitted under NOA# 02-0510.03)
4. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
3) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94
along with marked-up drawings and installation diagram of an outswing wood casement window, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-01-1077**, dated 09/09/01, signed and sealed by Hector M. Medina, P.E.
(Submitted under NOA# 02-0510.03)
5. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94
along with marked-up drawings and installation diagram of an outswing wood casement window, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-01-1190**, dated 09/25/01, signed and sealed by Hector M. Medina, P.E.
(Submitted under NOA# 02-0510.03)


Jorge M. Plasencia, P.E.
Product Control Unit Supervisor
NOA No. 15-0921.09
Expiration Date: August 08, 2019
Approval Date: May 05, 2016


NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (CONTINUED)

6. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
3) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94
along with marked-up drawings and installation diagram of an outswing wood casement window, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-01-1079**, dated 09/26/01, signed and sealed by Hector M. Medina, P.E.
(Submitted under NOA# 02-0510.03)
7. Test reports on: 1) Air Infiltration Test, per FBC TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC TAS 202-94
along with marked-up drawings and installation diagram of an outswing wood casement window, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-01-1185**, dated 04/18/01, signed and sealed by Hector M. Medina, P.E.
(Submitted under NOA# 02-0510.03)
8. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an outswing wood casement window, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-01-1007**, dated 09/06/01, signed and sealed by Hector M. Medina, P.E.
(Submitted under NOA# 02-0510.03)
9. Test reports on: 1) Air Infiltration Test,
2) Uniform Static Air Pressure Test,
3) Water Resistance Test
along with marked-up drawings and installation diagram of an outswing wood casement window, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-01-1186**, dated 04/18/01, signed and sealed by Hector M. Medina, P.E.
(Submitted under NOA# 02-0510.03)
10. Inspection reports on: 1) Sealant by Dow Corning 995, along with marked-up drawings and installation diagram, prepared by Hurricane Engineering & Testing, Inc., for Test Reports No. **HETI-01-1190, HETI-01-1077, HETI-01-1095, HETI-01-1184, HETI-01-1079, HETI-01-1185, HETI-01-1007, HETI-01-1186, and HETI-01-1006**, dated 06/28/02, signed and sealed by Rafael E. Droz-Seda, P.E.
(Submitted under NOA# 02-0510.03)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2014, prepared by EngCo, Inc., dated 04/21/16, signed and sealed by Pedro M. De Figueiredo, P.E.
2. Glazing complies with ASTM E1300-04.


Jorge M. Plasencia, P.E.
Product Control Unit Supervisor
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Roatan Mahogany USA, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS


1. Notice of Acceptance No. **13-0909.10** issued to Polymer Extrusion Technology, Inc. dba Glasslam for their "**Glasslam Safety-Plus II Glass Interlayer**" dated 10/03/13, expiring on 08/07/18.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC-2014**, and of no financial interest, dated 08/26/15, issued by EngCo Inc., signed and sealed by Pedro M. De Figueiredo, P.E.
2. Bill of Sale document, dated 09/26/13, between Roatan Mahogany Millwork, Inc., seller and Roatan Mahogany USA, Inc., buyer, signed by Robert De Leon.
(Submitted under NOA# 14-0722.09)

G. OTHER

1. Notice of Acceptance No. **14-0722.09**, issued to Roatan Mahogany USA, Inc. for their Series "Roatan Mahogany" Outswing Wood Casement Window – L.M.I., approved on 09/04/14 and expiring on 08/08/19.


Jorge M. Plasencia, P.E.
Product Control Unit Supervisor
NOA No. 15-0921.09
Expiration Date: August 08, 2019
Approval Date: May 05, 2016

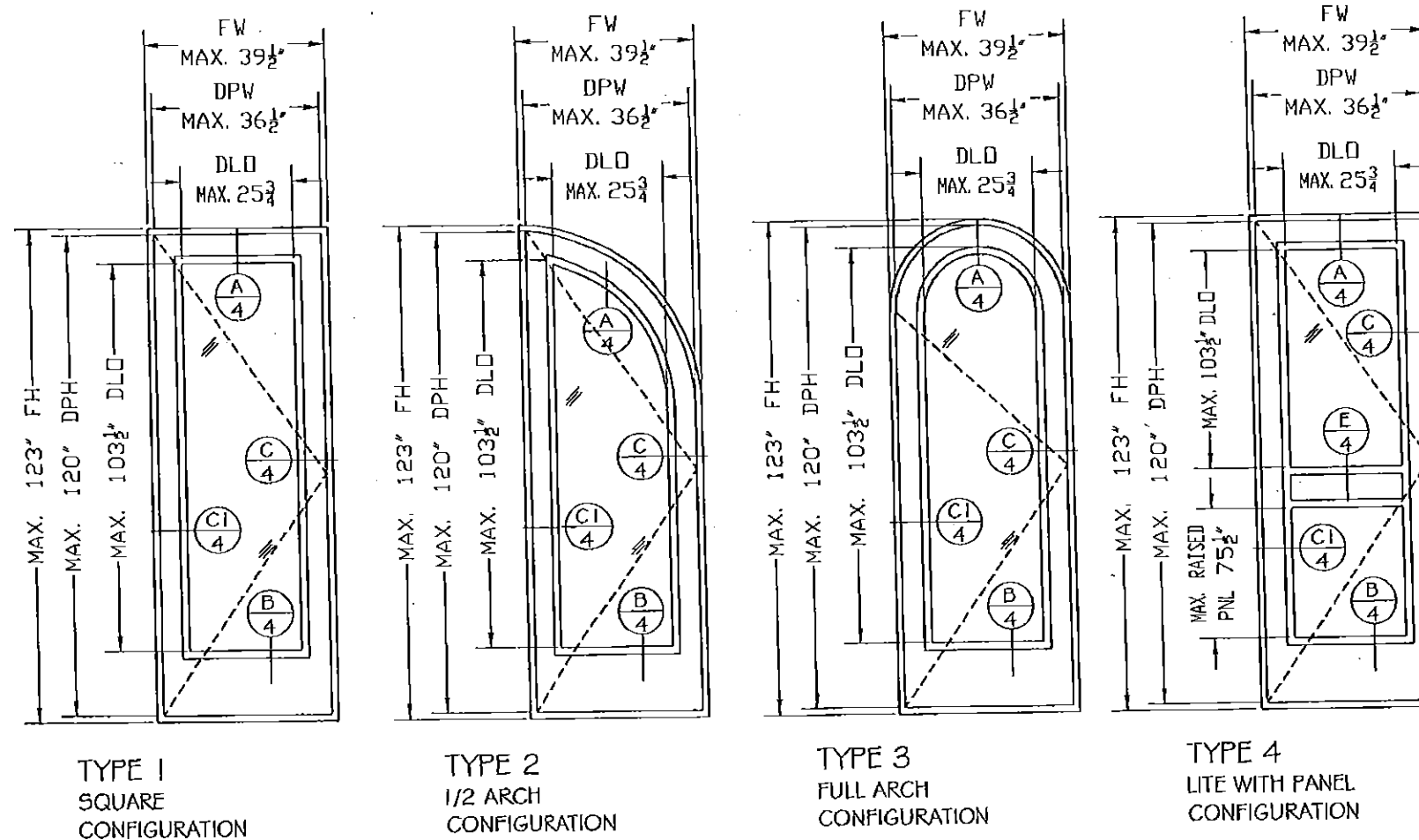
GENERAL NOTES:
FLORIDA BUILDING CODE 2014 HVHZ
LARGE & SMALL MISSILE IMPACT RATED

- 1- DEFINITION: THIS PRODUCT IS A CASEMENT MAHOGANY WINDOW, DESIGNED, CONSTRUCTED AND ERECTED TO ENCLOSE AN AREA, PROVIDING PROTECTION FROM HURRICANE FORCE WINDS WITHIN THE ALLOWABLE DESIGNED PRESSURES AND LIMITATIONS STATED IN THIS APPROVAL.
- 2- CODE: THIS PRODUCT HAS BEEN TESTED AND DESIGNED IN ACCORDANCE WITH THE 2014 FLORIDA BUILDING CODE, HIGH VELOCITY HURRICANE ZONES (HVHZ).
- 3- POSTING: A PERMANENT LEGIBLE DECAL SHALL BE PLACED AT A READILY VISIBLE LOCATION STATING THE FOLLOWING:
"ROATAN MAHOGANY USA, INC. - MIAMI - FLORIDA
LARGE MISSILE IMPACT RESISTANT
SWIETENIA SERIES CASEMENT WINDOW
MIAMI-DADE COUNTY PRODUCT APPROVED"
- 4- LOADS: DESIGNED LOAD CALCULATED BASED ON THE ASCE 7-10 AND PROVIDED BY A PROFESSIONAL ARCHITECT OR ENGINEER FOR EACH SPECIFIC PROJECT. THE CALCULATED DESIGNED PRESSURE MUST NOT EXCEED THE ALLOWABLE PRESSURES HEREIN SPECIFIED. THE DESIGN PRESSURES, AS DETERMINED FROM ASCE 7-10, ARE TO BE MULTIPLE BY 0.6.
- 5- MATERIAL: ALL WOOD MATERIAL TO BE FABRICATED FROM KILN DRIED MAHOGANY.
- 6- FASTENERS: ASSEMBLY SCREWS AND ANCHORS SHALL BE AS SPECIFIED IN THE CURRENT SET OF DRAWINGS. INSTALLATION AND LOADS AS PER THIS APPROVAL.
- 7- USE: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, ARCHITECT OR ENGINEER OF RECORD TO VERIFY THE FOLLOWING:
7.1 - THE STABILITY OF THE STRUCTURE WHERE THE SHUTTER IS TO BE ATTACHED INSURING PROPER ANCHORAGE.
7.2 - THE SITE SPECIFIC PROJECT CRITERIA, SUCH AS BUT NOT LIMITED TO, WINDLOADS, LOCAL CODE REQUIREMENTS, DESIGNED PRESSURES ETC.
7.3 - THAT THIS APPROVAL IS ADEQUATE TO THE SPECIFIC PROJECT.

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TYPICAL SINGLE ELEVATIONS



DESIGNED PRESSURE RATING
 $P_d = \pm 75 \text{ PSF}$

MAXIMUM FRAME SIZES:
FINISHED WIDTH: FW = 39 1/2"
FINISHED HEIGHT: FH = 123"

MAXIMUM CLADDING SIZES:
1/2" GLASLAM SAFETY-PLUS II IMPACT GLASS
DLO: 25 3/4" X 103 1/2"
1 1/2" MAHOGANY SOLID WOOD PANEL
DLO: 25 3/4" X 75 1/2"

LEGEND
FH - FINISHED HEIGHT
FW - FINISHED WIDTH
DLO - DAY LIGHT OPENING
DPH - WINDOW PANEL HEIGHT
DPW - WINDOW PANEL WIDTH

WOOD TYPE:
VERNACULAR NAME: TRUE MAHOGANY
SCIENTIFIC NAME: SWIETENIA MACROPHYLLA G. KING
FAMILY: MELIACEAE
MINIMUM SPECIFIC GRAVITY: 0.45

GLASS TYPE:
1/2" LAMINATED MADE OF TWO 3/16" ANNEAL LITES PLUS GLASLAM SAFETY-PLUS II INTERLAYER AS PER CURRENT NOA

MANUFACTURER:

**ROATAN
MAHOGANY
USA, INC**

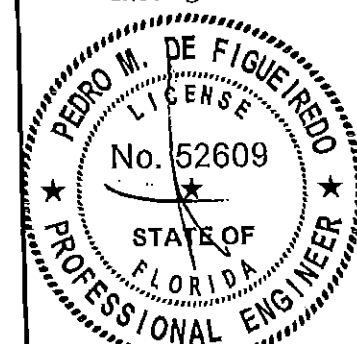
4004C AURORA STREET
CORAL GABLES, FL 33146
PHONE: (305) 774-5999
FAX: (305) 774-0083

PRODUCT:

**MAHOGANY
CASEMENT
WINDOWS**
SWIETENIA SERIES
CASEMENT WINDOW
LARGE & SMALL MISSILE IMPACT

ENGINEERING:

ENGCO INC. CA 8116
5595 ORANGE DR. 201
DAVIE, FL. 33314
Tel.: (954) 585-0304
ENGCO@AOL.COM



AUG 26 2015

Engineer Seal
Pedro De Figueiredo - PE 52609

MIAMI-DADE BCCO:

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **15-0921.09**

Expiration Date **08/08/2019**

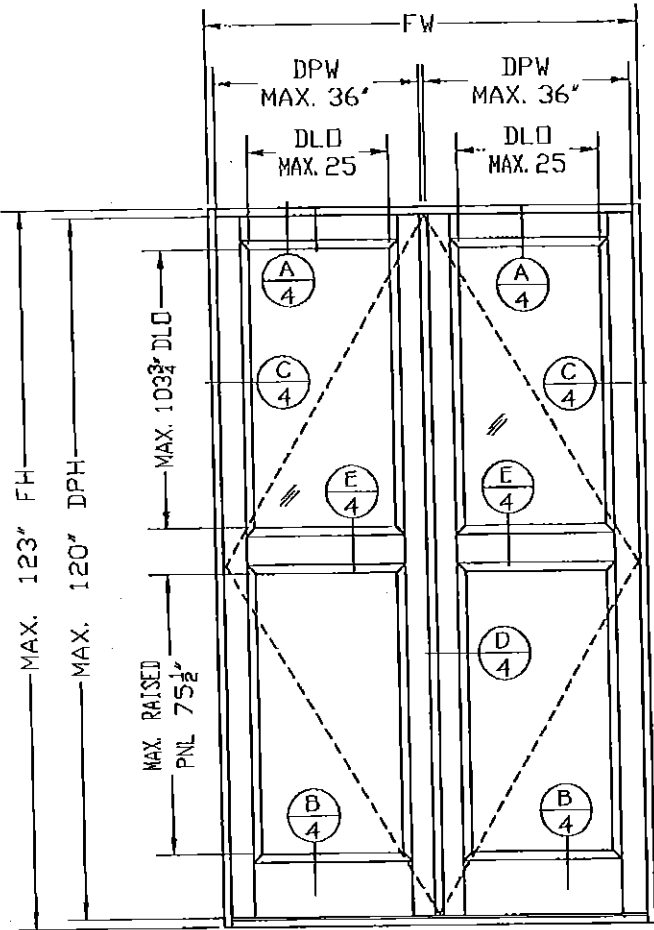
By
Miami-DADE Product Control

DATE: 08/26/2015
SCALE: NA
DESIGN BY: PPMF

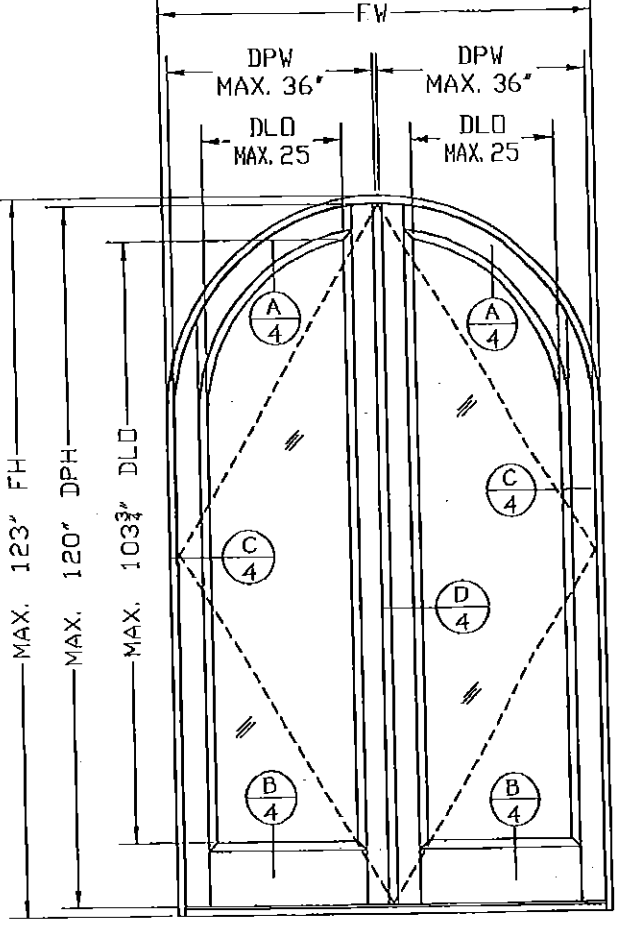
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1 OF 7

DRAWING #:
15-254

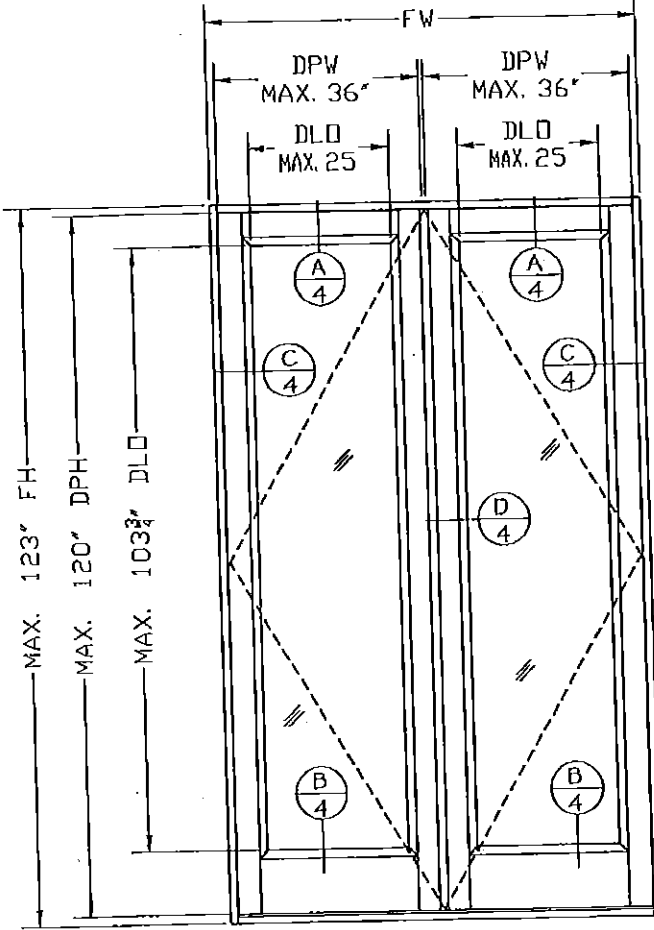
TYPICAL PAIR ELEVATIONS



TYPE 5
SPLIT PANEL CONFIGURATION



TYPE 6
ARCH CONFIGURATION



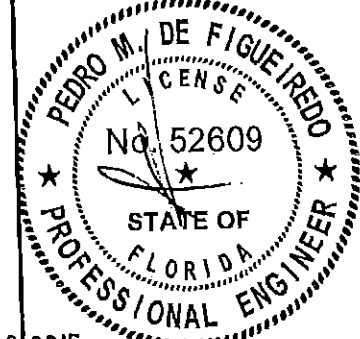
TYPE 7
SQUARE CONFIGURATION

DESIGNED PRESSURE RATING $P_d = \pm 75 \text{ PSF}$
MAXIMUM FRAME SIZES: FINISHED WIDTH: FW= 75 1/2" FINISHED HEIGHT: FH= 123"
MAXIMUM CLADDING SIZES: 1/2" GLASLAM SAFETY-PLUS II IMPACT GLASS DLO: 25" X 103 3/4" 1 1/2" MAHOGANY SOLID WOOD PANEL DLO: 25" X 75 1/2"

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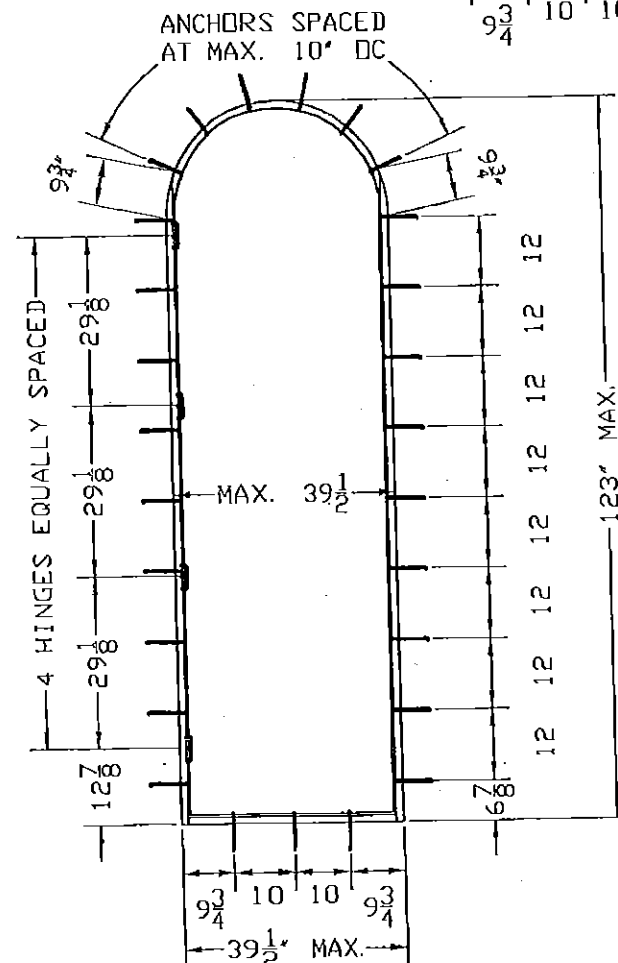
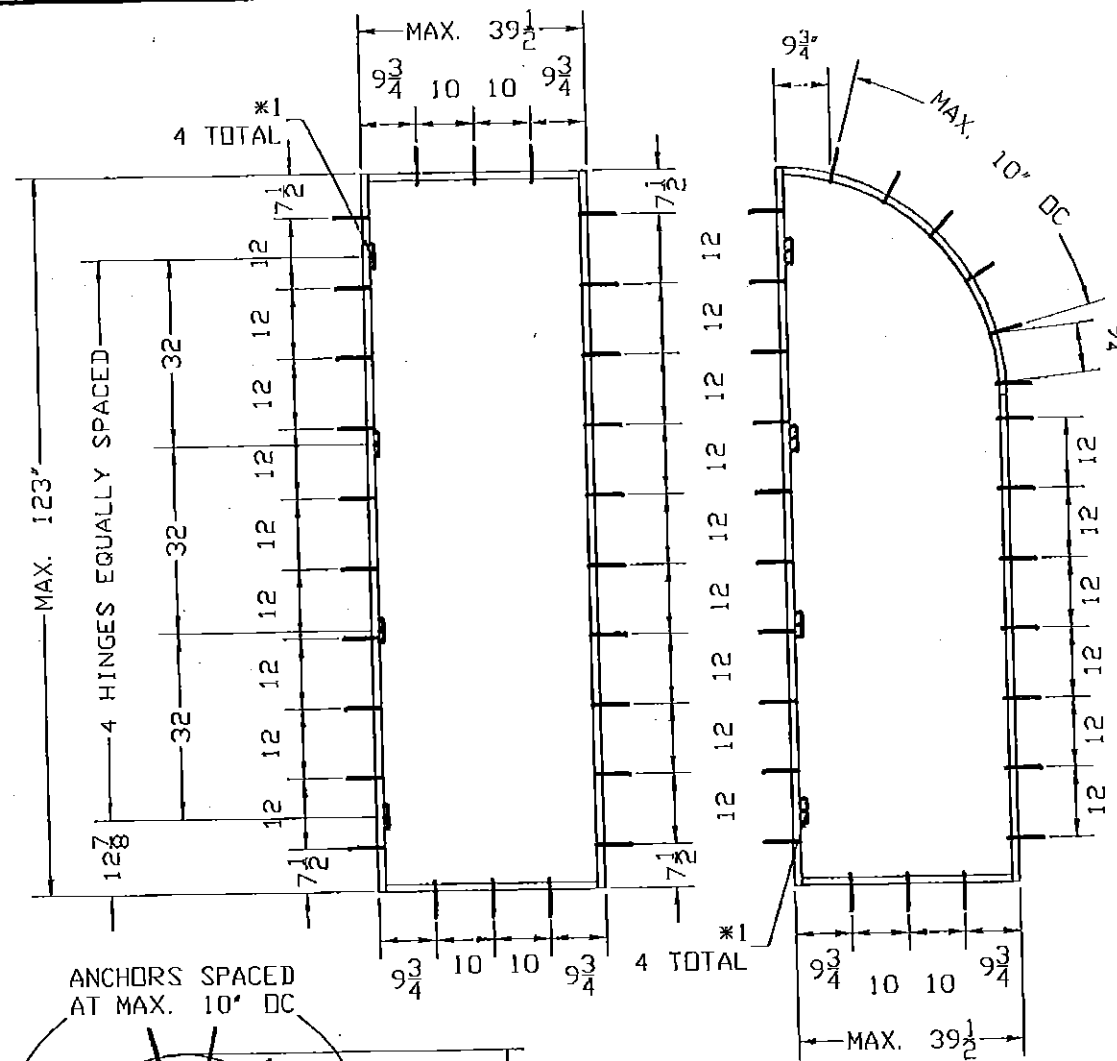
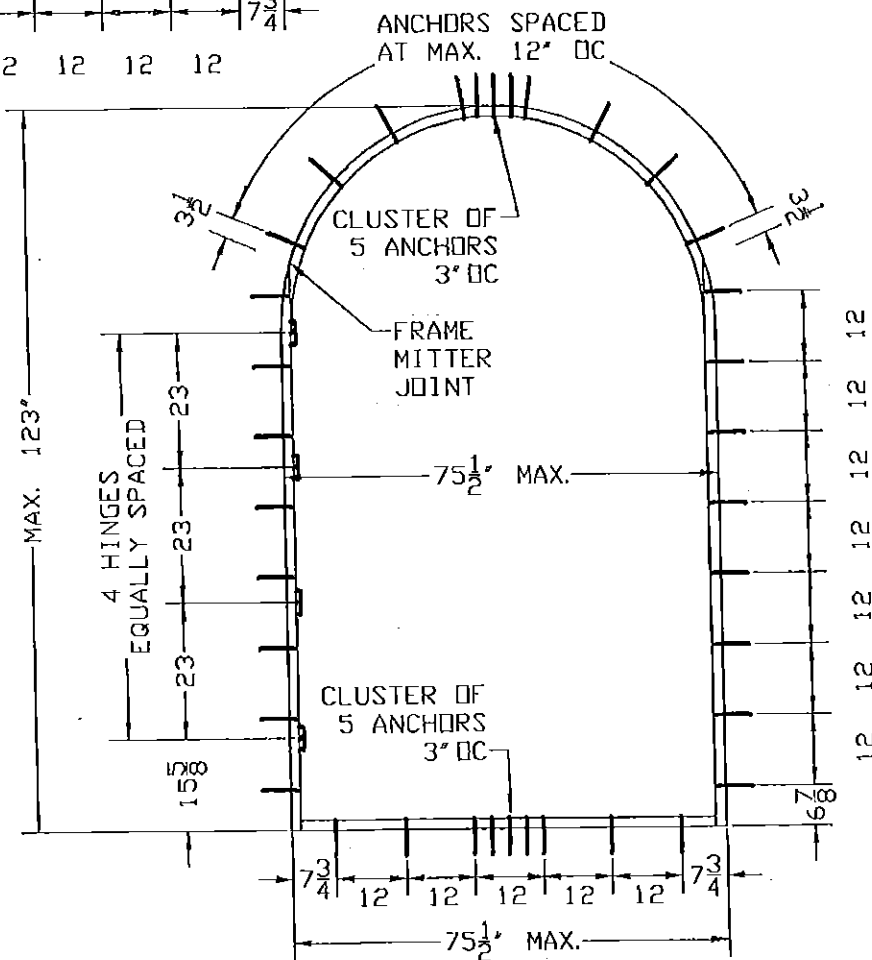
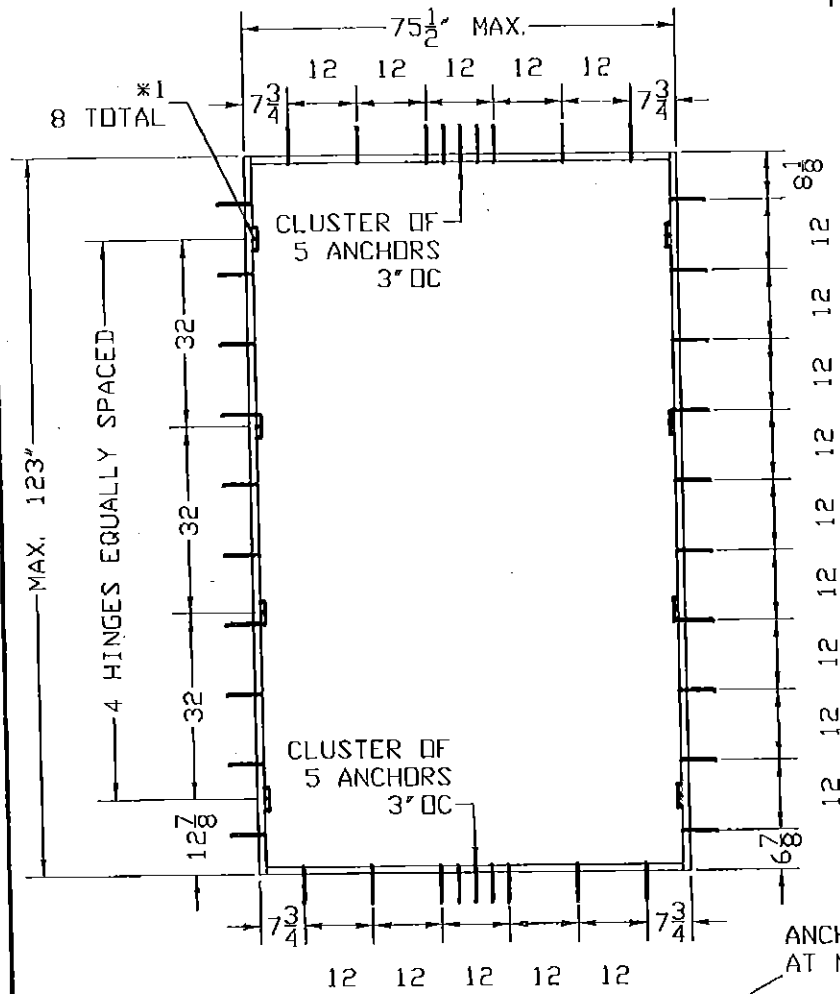
AUG 26 2015
Engineer Seal
Pedro De Figueiredo - PE 52609

MIAMI-DADE BCCO:
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **15-0921.09**
Expiration Date **08/08/2019**
By *[Signature]*
Miami-DADE Product Control

DATE: 08/26/2015
SCALE: NA
DESIGN BY: PPMF

SHEET 2 OF 7	DRAWING #: 15-254
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TYPICAL ANCHORAGE LAY-OUT
(SEE SHEET 6 OF 7 FOR ANCHOR DETAILS)



MANUFACTURER:

**ROATAN
MAHOGANY
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4004C AURORA STREET
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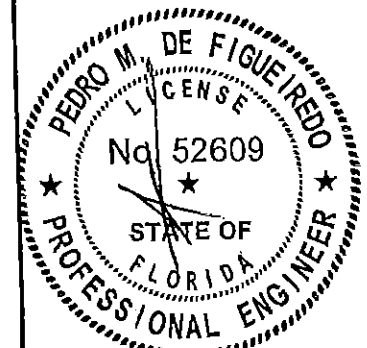
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AUG 28 2015

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By *[Signature]*
Miami-Dade Product Control

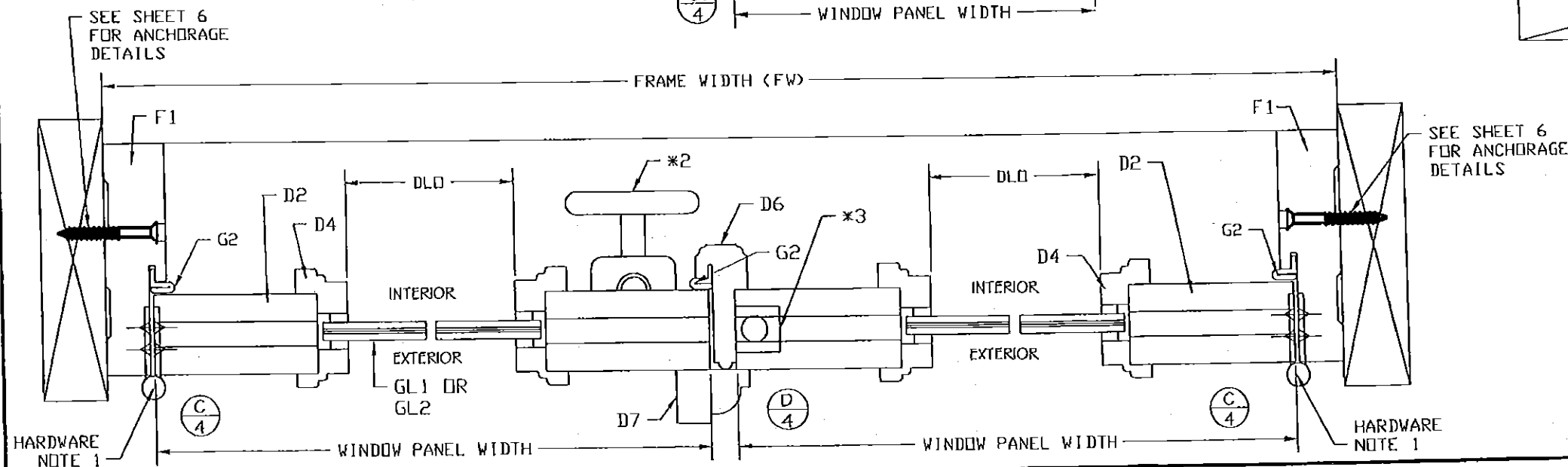
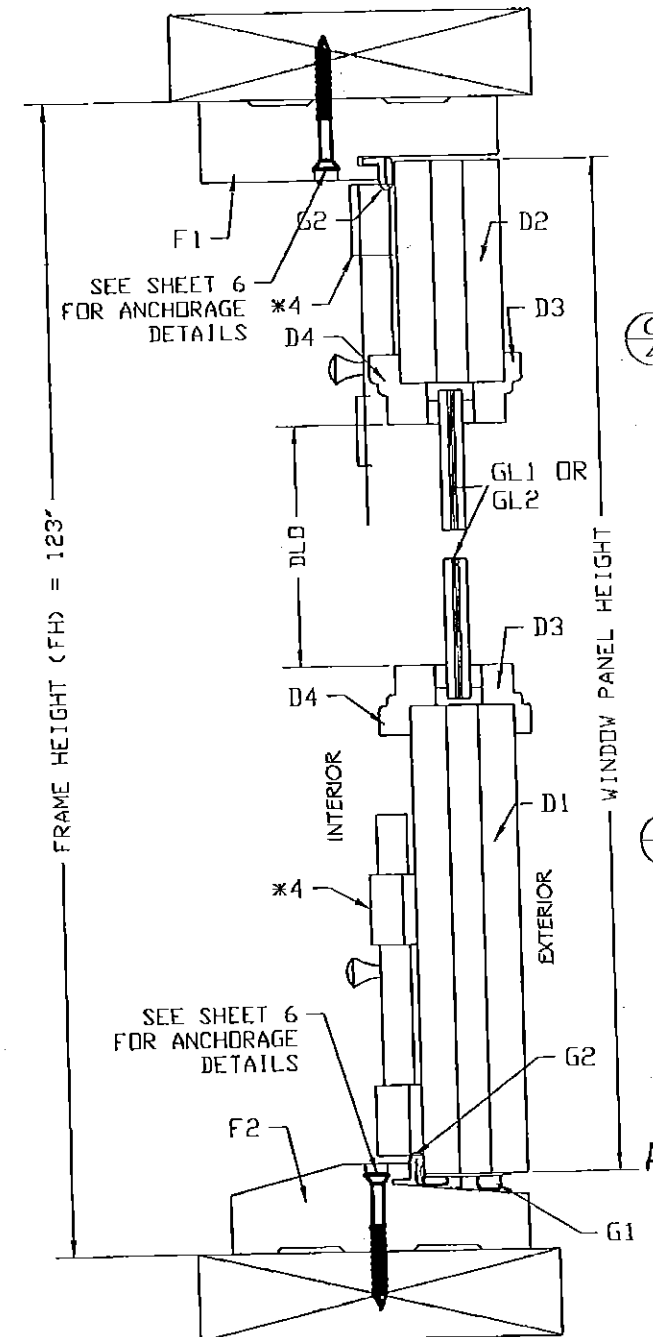
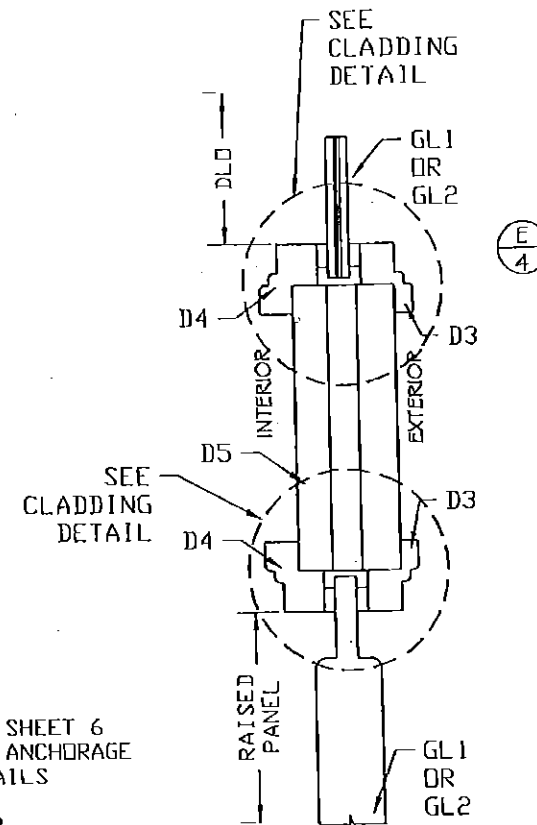
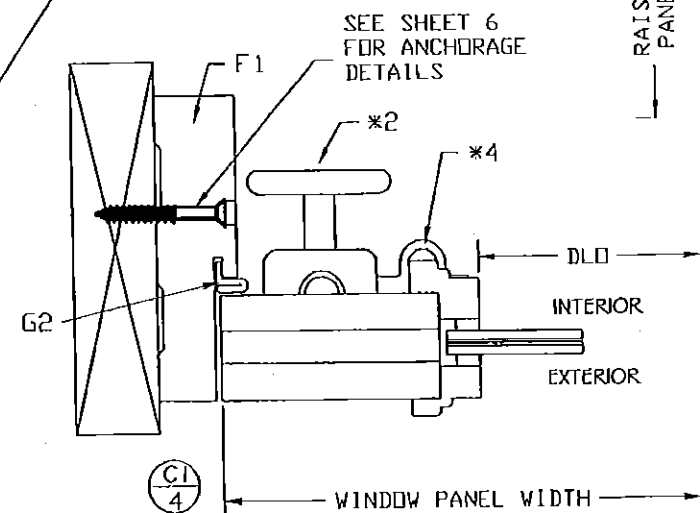
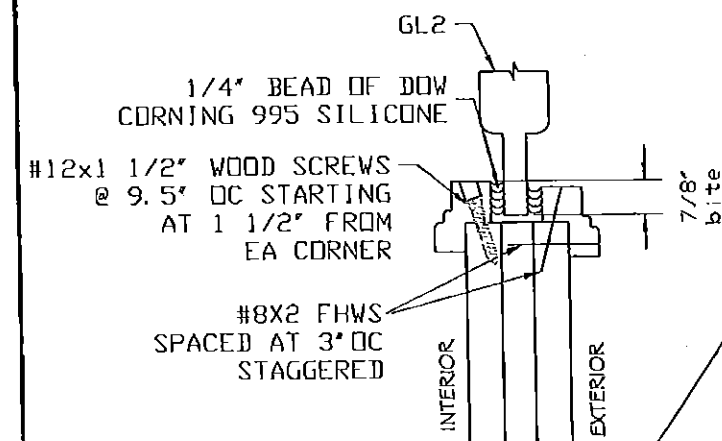
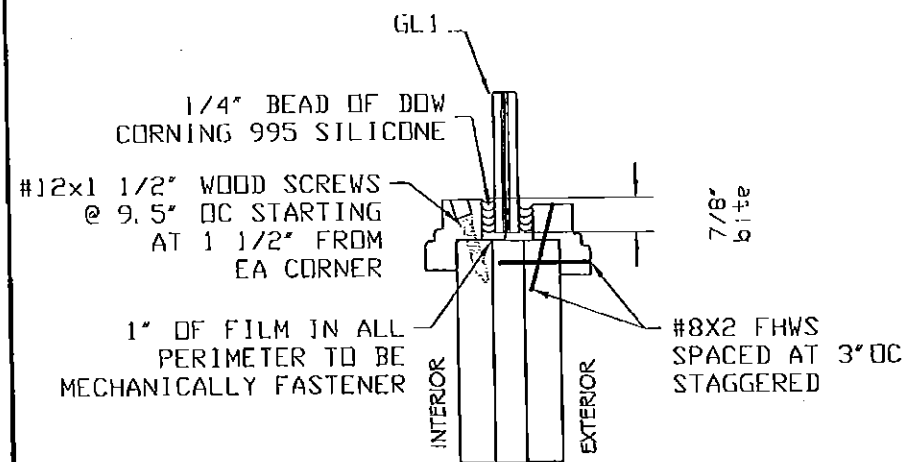
DATE: 08/26/2015
SCALE: NA
DESIGN BY: PPMF

SHEET
3 OF 7

DRAWING #:
15-254

CLADDING OPTIONS

TYPICAL CROSS SECTIONS



MANUFACTURER:

ROATAN
MAHOGANY
USA, INC

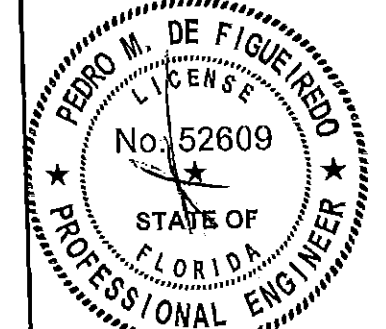
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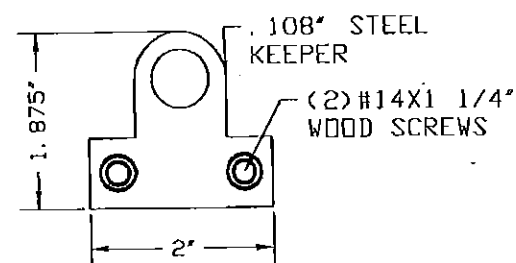
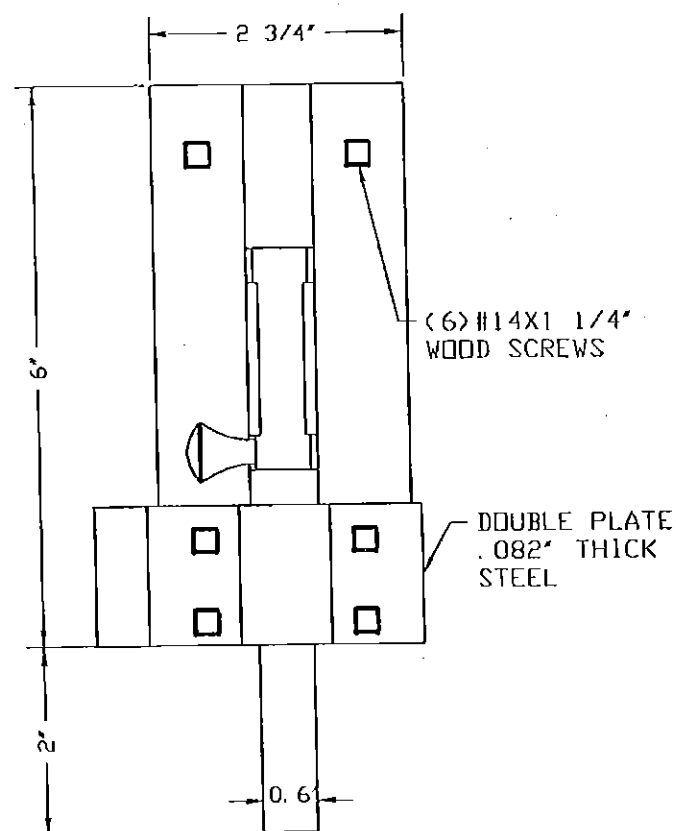
By
Miami-Dade Product Control

DATE: 08/26/2015
SCALE: NA
DESIGN BY: PPMF

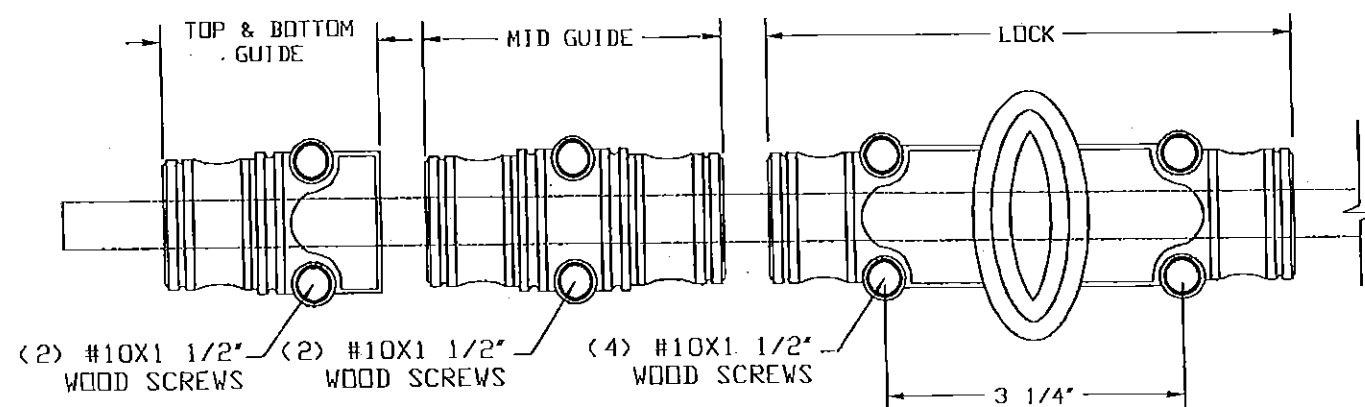
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4 OF 7

DRAWING #:
15-254

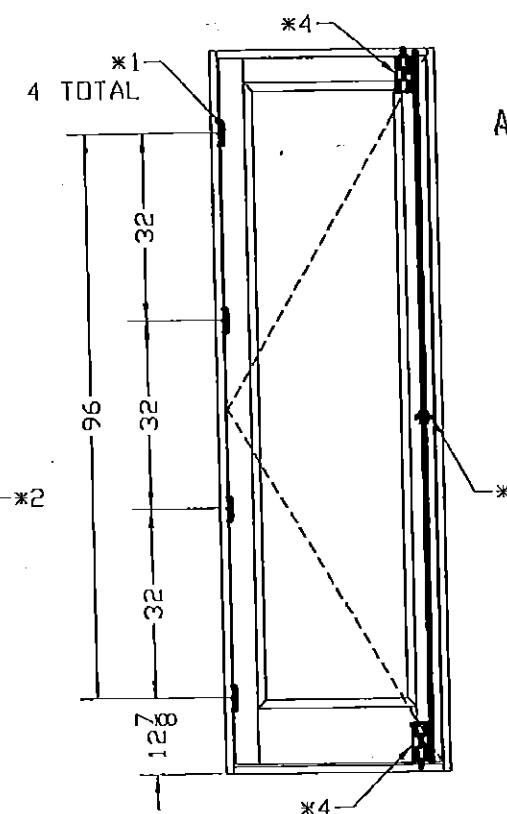
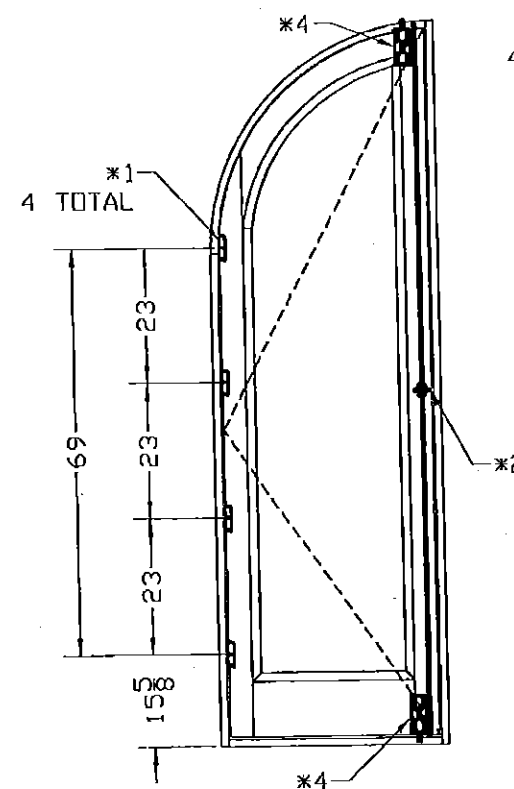
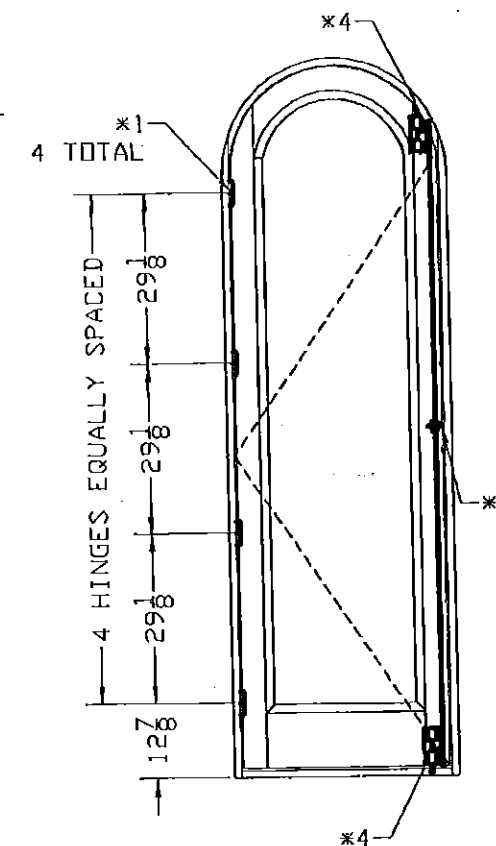
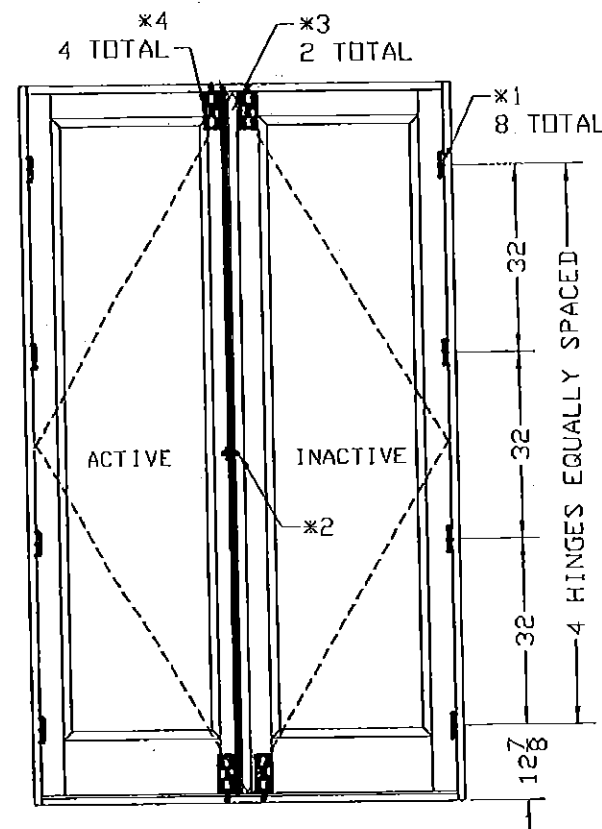
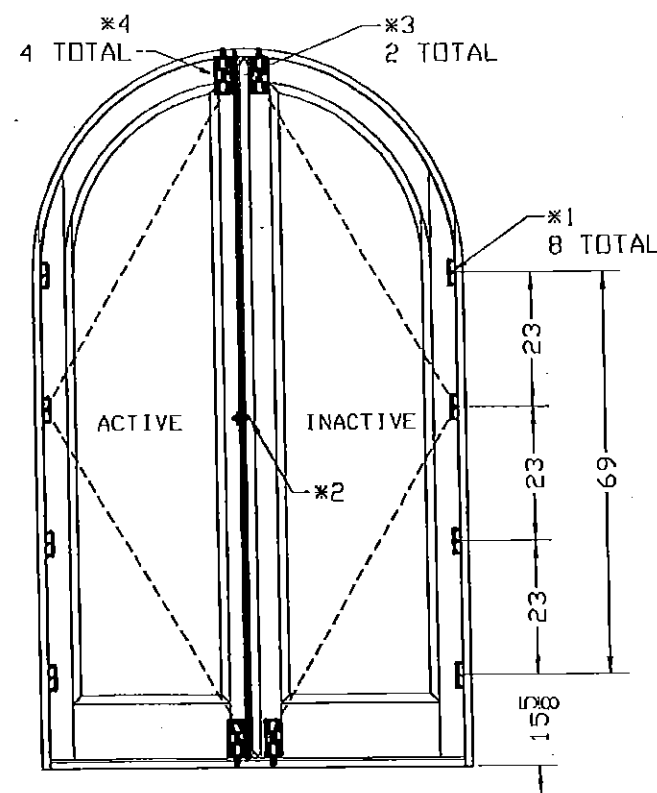
*3- NATIONAL .60" DIAM. THROW BOLT



*2- ARDIMPX THREE POINT CREMONES
SAME DETAIL TOP AND BOTTOM



HARDWARE LAY-OUT



- * HARDWARE
- 1- 4 1/2"x 4 1/2"x .136 HAGER 1279 HINGES SPACED AS PER ELEVATIONS ABOVE AND CONNECTED WITH (8) #12x1 1/4" FH SMS. (SQUARE WINDOW, 4 PER LEAF AND ARCH WINDOW, 3 PER LEAF)
 - 2- ARDIMPX THREE POINT CREMONES ON ACTIVE LEAF FASTENED WITH (12) #10x1 1/2" FH SMS.
 - 3- HARROW PRODUCTS INC. FLUSH BOLTS 296G UL LISTED TOP AND BOTTOM OF INACTIVE LEAF.
 - 4- SECONDARY LOCKS (ACTIVATE ONLY WHEN HURRICANE FORCE WINDS ARE EXPECTED) - NATIONAL O.60 DIA THROW BOLT ANCHORED WITH (6) #14x1 1/4" ON ACTIVE AND INACTIVE DOORS TOP AND BOTTOM RAILS.

MANUFACTURER:

ROATAN
MAHOGANY
USA, INC

4004C AURORA STREET
CORAL GABLES, FL 33146
PHONE: (305) 774-5999
FAX: (305) 774-0083

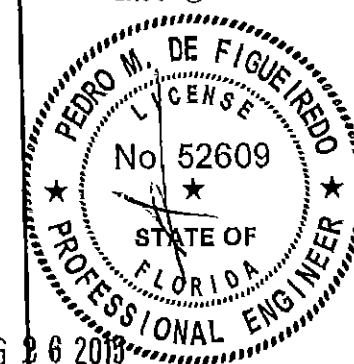
PRODUCT:

MAHOGANY
CASEMENT
WINDOWS
SWIETENIA SERIES
CASEMENT WINDOW
LARGE & SMALL MISSILE IMPACT

ENGINEERING:

ENGCO INC. CA 8116

5595 ORANGE DR. 201
DAVIE, FL. 33314
Tel: (954) 585-0304
ENGCO@AOL.COM



AUG 26 2015

Engineer Seal
Pedro De Figueiredo - PE 52609

MIAMI-DADE BCCO:

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **15-0921.09**

Expiration Date **08/08/2019**

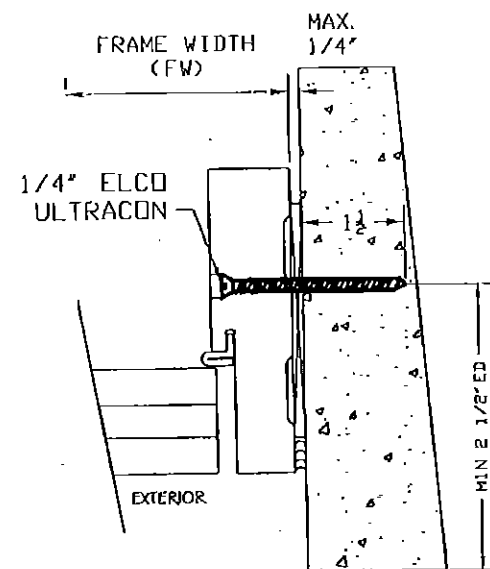
By *[Signature]*
Miami-Dade Product Control

DATE: 08/26/2015
SCALE: NA
DESIGN BY: PPMF

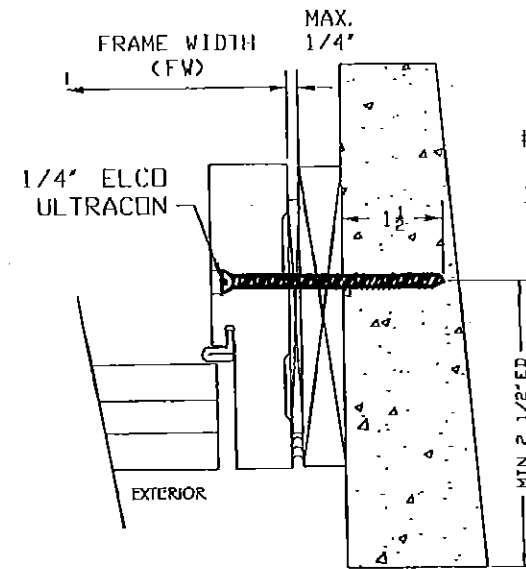
SHEET
5 OF 7

DRAWING #:
15-254

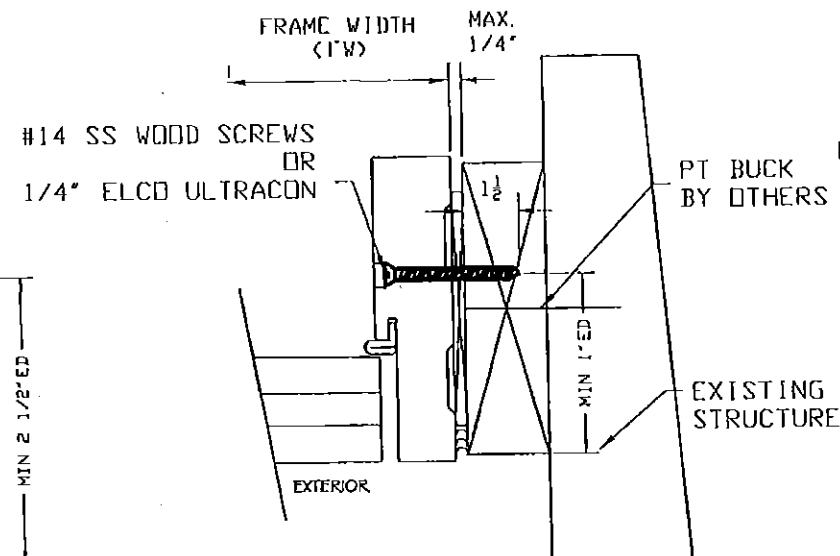
TYPICAL ANCHORAGE DETAILS



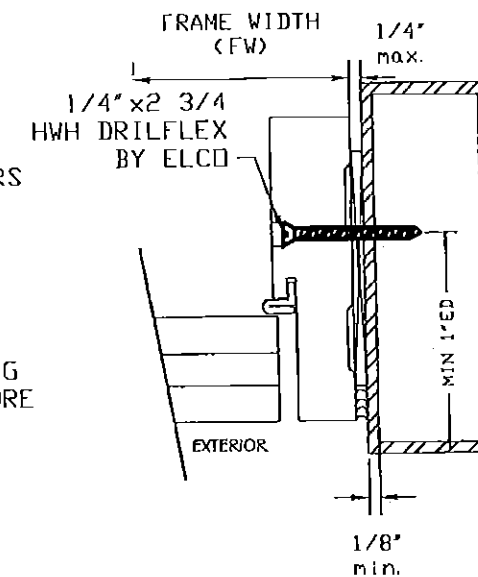
OPTION 1
FRAME WITH MAXIMUM 1/4" PT WOOD SHIM
1/4" ULTRACONS BY ELCO WITH 1 1/4" MIN.
EMBEDMENT INTO MASONRY
(SEE SHEET 3 OF 7 FOR ANCHORS LAY-OUT)



OPTION 2
FRAME WITH MAXIMUM 1/4" PT WOOD SHIM AND
1"X PT CONT. WOOD SPACER
1/4" ULTRACONS BY ELCO WITH 1 1/4" MIN.
EMBEDMENT INTO MASONRY
(SEE SHEET 3 OF 7 FOR ANCHORS LAY-OUT)



OPTION 3
FRAME WITH MAXIMUM 1/4" PT WOOD SHIM
AND 2"X PT CONT. WOOD BUCK BY OTHERS
#14 SS WOOD SCREWS OR 1/4" ULTRACONS WITH
1 1/2" MIN. EMBEDMENT INTO WOOD (SG=.55)
(SEE SHEET 3 OF 7 FOR ANCHORS LAY-OUT)



OPTION 4
FRAME WITH MAXIMUM 1/4" PT WOOD SHIM
1/4"-20 HW DRILFLEX SELF DRILLING SCREWS BY
ELCO INTO MIN. 1/8" A36 STEEL
(SEE SHEET 3 OF 7 FOR ANCHORS LAY-OUT)

MANUFACTURER:

ROATAN
MAHOGANY
USA, INC

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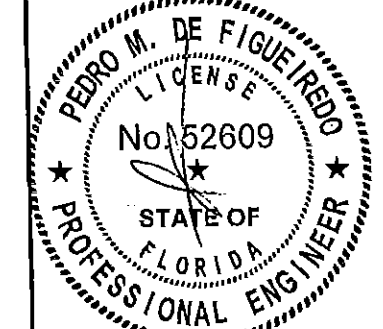
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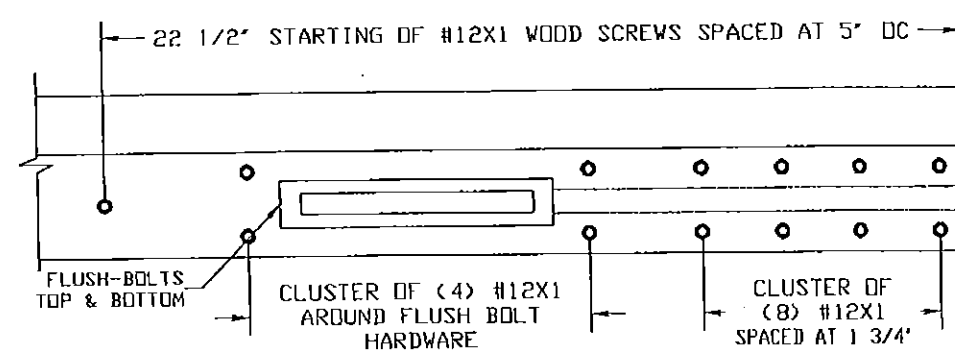
By
Miami-DADE Product Control

DATE: 08/26/2015
SCALE: NA
DESIGN BY: PPMF

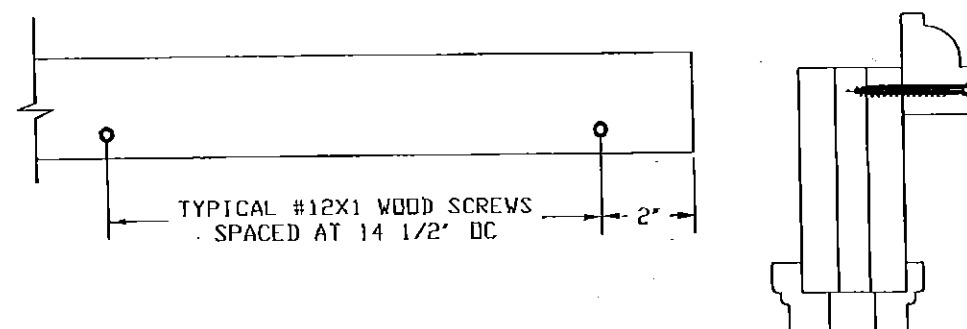
SHEET
6 OF 7

DRAWING #:
15-254

ACTIVE ASTRAGAL INSTALLATION TO WINDOW STILE
SAME DETAIL TOP AND BOTTOM



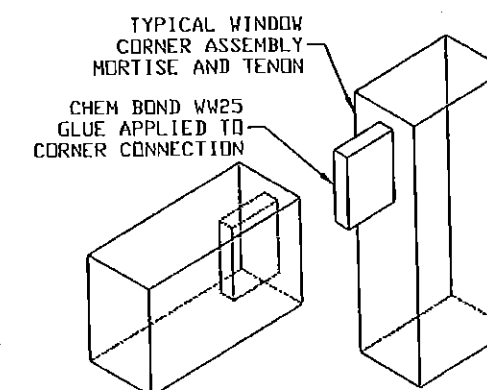
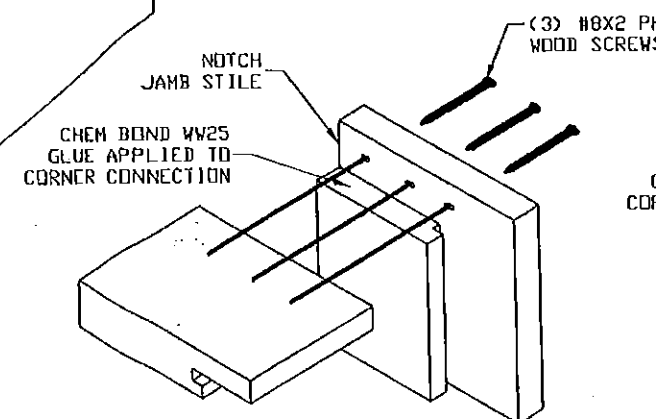
INACTIVE ASTRAGAL INSTALLATION TO WINDOW STILE
SAME DETAIL TOP AND BOTTOM



FRAME AND WINDOW ASSEMBLY

TYPICAL CORNER FRAMING
CONSTRUCTION

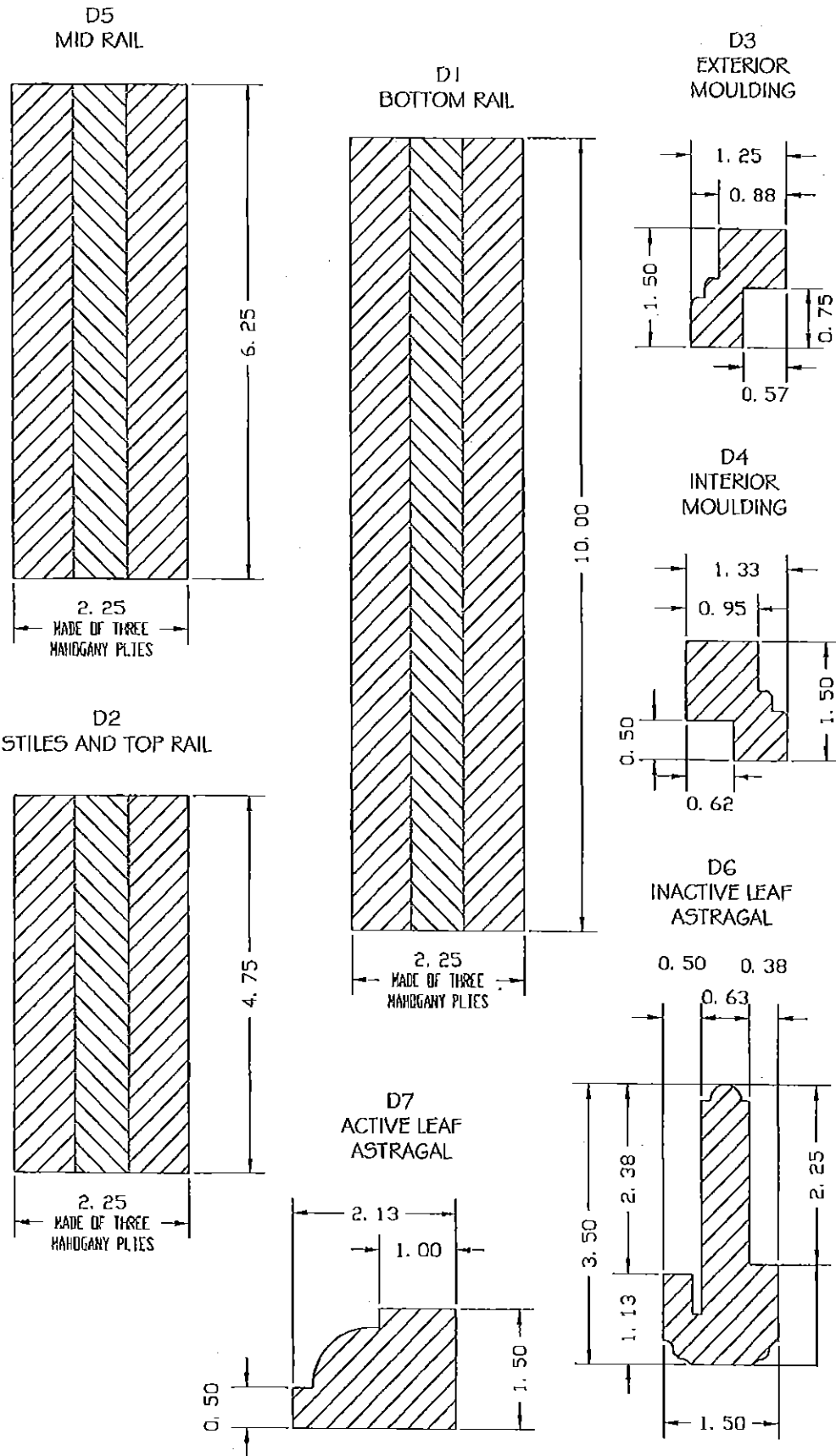
TYPICAL WINDOW CORNER
CONSTRUCTION



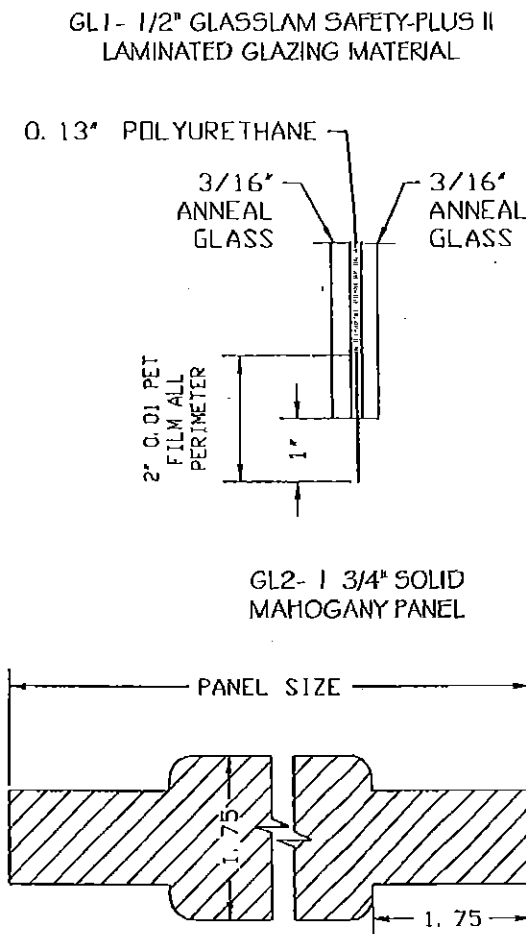
NOTE: AFTER FRAMING ASSEMBLY
ALL JOINTS ARE TO BE SEALED
WITH DOW 995 SILICONE.

PRODUCT COMPONENTS AND BILL OF MATERIALS

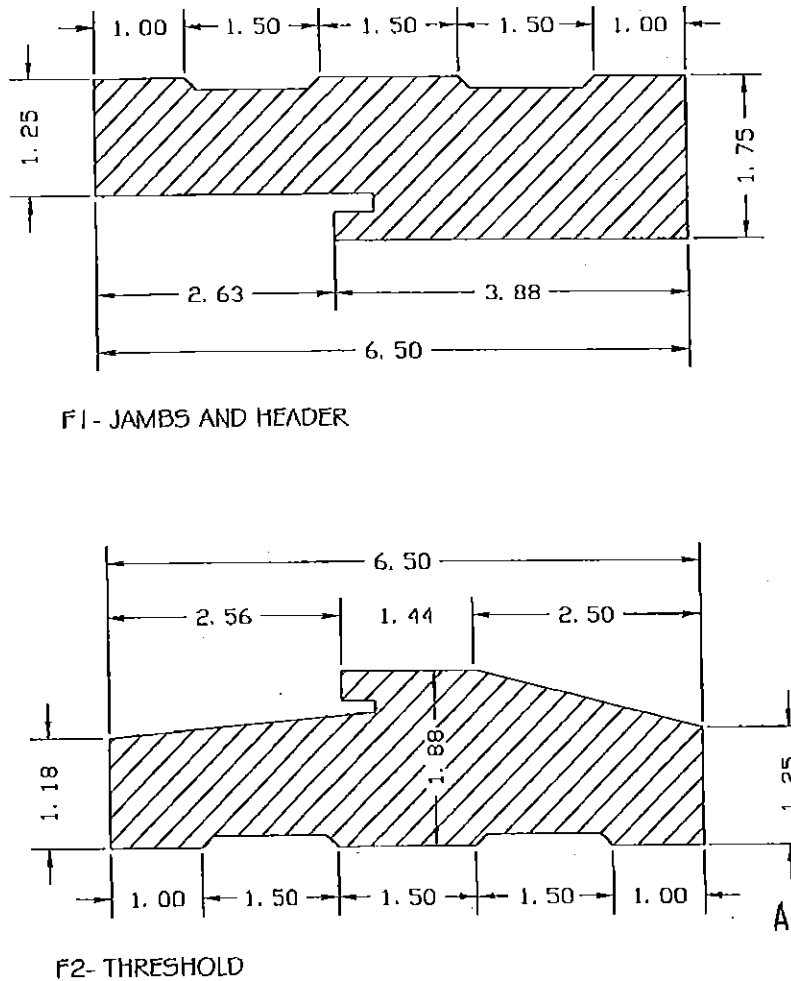
SASH PARTS



CLADDING



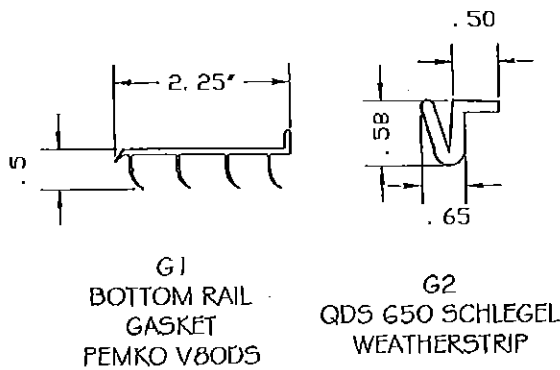
FRAME PARTS



BILL OF MATERIALS

ITEM#	DESCRIPTION	SIZE	REMARKS
D1	BOTTOM RAIL	2.25"X 10"	MAHOGANY WOOD
D2	TOP RAIL & STILES	2.25"X 4.75"	MAHOGANY WOOD
D3	EXTERIOR MOULDING	1.50"X 1.25"	MAHOGANY WOOD
D4	INTERIOR MOULDING	1.50"X 1.375"	MAHOGANY WOOD
D5	MID RAIL	2.25"X 6.25"	MAHOGANY WOOD
D6	INACTIVE ASTRAGAL	3.50"X 1.50"	MAHOGANY WOOD
D7	ACTIVE ASTRAGAL	2.13"X 1.50"	MAHOGANY WOOD
GL1	IMPACT GLASS	1/2" LAMINATED	BY GLASSLAM
GL2	SOLID PANEL	1.75" THICK	MAHOGANY WOOD
F1	JAMB AND HEADER	1.75"X6.50"	MAHOGANY WOOD
F2	SILL	1.875"X6.50"	MAHOGANY WOOD
G1	BOTTOM RAIL GASKET	2.25"X0.5"	PEMCO V80DS VINYL
G2	FRAME SEAL	0.65"X0.58"	SCHIEGEL QDS 650

GASKETS



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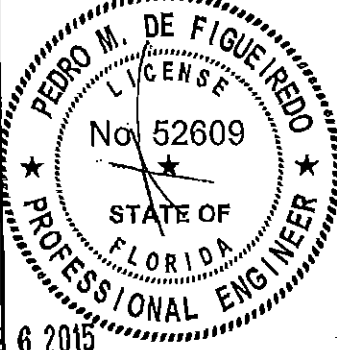
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7 OF 7

DRAWING #:
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